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9.

element for each row of wells of the microtiter plate.

## WHAT IS CLAIMED IS:

1	1. A device for applying a magnetic field to a microtiter plate, said			
2	device comprising:			
3	a substrate; and			
4	a plurality of magnetic elements disposed on said substrate, wherein said			
5	plurality of magnetic elements are arranged parallel to each other such that the longitudinal			
6	axis of each magnetic element is approximately centered under a row or column of wells of a			
7	microtiter plate when said microtiter plate is positioned upon the device.			
1	2. The device of claim 1, wherein said substrate is comprised of a			
2	material selected from the group consisting of polymers, plastics, pyrex, quartz, resins,			
3	silicon, silica, silica-based materials, carbon, metals, inorganic glass and combinations			
4	thereof.			
1	3. The device of claim 1, wherein said substrate is comprised of a			
2	material selected from the group consisting of organic, inorganic, biological, nonbiological			
3	materials and combinations thereof.			
1	4. The device of claim 1, wherein said substrate is substantially disc-			
2	shaped, square-shaped, rectangle-shaped or combinations thereof.			
1	5. The device of claim 1, wherein said substrate has substantially the			
2	same shape and size as said microtiter plate.			
1	6. The device of claim 1, wherein the device comprises one magnetic			
2	element for each column of wells of the microtiter plate.			
1	7. The device of claim 1, wherein the device comprises twenty-four			
2	magnetic elements and the longitudinal axis of each element is approximately centered under			
3	a column of wells of a 384-well microtiter plate.			
1	8. The device of claim 6, wherein each magnetic element is			
2	approximately the same length of a column of wells of the microtiter plate.			

The device of claim 1, wherein the device comprises one magnetic

1		10.	The device of claim 9, wherein the device comprises sixteen magnetic	
2	elements and the longitudinal axis of each element is approximately centered under a row of			
3	wells of a 384-well microtiter plate.			
1		11.	The device of claim 9, wherein each magnetic element is	
2	approximately	the san	ne length of a row of wells of the microtiter plate.	
1		12.	The device of claim 1, wherein adjacent magnetic elements are in	
1			The device of claim 1, wherein adjacent magnetic elements are in	
2	contact with each other.			
1		13.	The device of claim 1, wherein adjacent magnetic elements are	
2	separated from	on and	other by a non-magnetic material.	
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1		14.	The device of claim 1, wherein each magnetic element is	
2	approximately as wide as the diameter of a well of the microtiter plate.			
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1		15.	The device of claim 1, wherein the device does not include a	
2	mechanism for horizontal circular translation of the microtiter plate.			
1		16.	The device of claim 1, wherein the device further comprises a	
2	microtiter nlat		oned upon the magnetic elements.	
-	minoromen plan	o positi	oned upon the magnetic elements.	
1		17.	The device of claim 16, wherein one or more wells of the microtiter	
2	plate contains a suspension of magnetic particles.			
1		18.	The device of claim 17, wherein the suspension comprises	
2	immunoassay reagents.			
1		19.	The device of claim 17, wherein the suspension comprises a primer	
2	extension reac		The device of claim 17, wherein the suspension comprises a primer	
2	extension reac	tion.		
1		20.	The device of claim 19, wherein the primer extension reaction is a	
2	DNA sequencing reaction.			
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1		21.	The device of claim 19, wherein the suspension comprises dye-labeled	

molecules and a polymer into which dye-labeled molecules are incorporated, and particles

3 that comprise a paramagnetic moiety and a porous hydrophobic material entrapped within a 4 hydrophilic matrix. 22. A method for removing unincorporated dye-labeled molecules from a 1 2 mixture that comprises the dye-labeled molecules and a polymer into which dye-labeled 3 molecules are incorporated, the method comprising: 4 a) contacting the mixture with a plurality of particles that 5 comprise a paramagnetic moiety and a porous hydrophobic material 6 entrapped within a hydrophilic matrix; 7 b) mixing and incubating the mixture and the particles for a 8 sufficient time for dye-labeled molecules that are not incorporated into the 9 polymer to pass into the hydrophilic matrix and become adsorbed onto the 10 11 11 hydrophobic material; c) placing a microtiter plate of which one or more wells contains the mixture upon a device that comprises a plurality of magnetic elements 13 14 which are arranged parallel to each other such that the longitudinal axis of each magnetic element is approximately centered under a row or column of ......15 wells of the microtiter plate, thereby concentrating the particles on a surface of the microtiter plate wells; and **17** d) removing the liquid phase from the wells, thus leaving behind 18 the adsorbed unincorporated dye-labeled molecules. 1 23. The method of claim 22, wherein the mixture comprises a primer 2 extension reaction. 1 24. The method of claim 23, wherein the primer extension reaction is a 2 DNA sequencing reaction.

molecules and the dye-labeled molecules are dye-labeled dideoxynucleotides.

The method of claim 24, wherein the polymers are polynucleotide

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